Seno

Senozza
Vision Document

Version 1.0

Revision History

Date	Version	Description	Author
09/11/2022	1.0	<details>	Seno Team

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Vision (Small Project)

1.   Introduction

Lecturers and students at Vietnamese universities usually utilize Zalo or Facebook to discuss schoolwork (homework, assignments, projects, etc.) However, this is not the optimal solution as students and lecturers cannot track and organize all the information since Zalo or Facebook are general-purpose social media. In addition, some students may prefer to be anonymous, which is impossible on these platforms. There are dedicated platforms, but none are specifically built for Vietnamese students. We want to build a new platform that solves all these issues.

2.   Positioning

2.1   Problem Statement

The problem of	having an easy-to-use online university question-and-answer website
affects	students who want to ask questions and instructors who want to easily arrange topics for their students
the impact of which is	students who cannot find the correct answers for their questions or cannot find anything related to their un-general course at class and professor who cannot connect with their student thoroughly
a successful solution would be	helping students get the desired answer by discussing the questions in a reliable interface.

2.2   Product Position Statement

For	Student, professor
Who	attend in a university
The (product name)	Senozza
That	Have many new futures that the old moodle does not include.
Unlike	the current moodle, Facebook, Zalo
Our product	connects students and instructors and ensures the trust between them by voting and verifying mechanism.

3.   Stakeholder and User Descriptions

3.1   Stakeholder Summary

Name	Description	Responsibilities
Lecturers and Teacher Assistants	The people who teach and manage the students's activities and points in a specific course.	They will take responsibility for publishing lecture slides, homework, projects,.. in their courses. Moreover, they will assess student's abilities through exams. These people will use and test all functions in our platform.
Students	The people who attend courses for enhancing their	They will submit their homeworks or projects in order to get a score in some specific tasks.

	knowledge, getting full credits in order to graduate.	Moreover, they can ask and discuss their tackles on our platform.
Server Hosting	These people will manage offsites, design some hardware resources for maintaining our website.	They account for maintenancing their hardware for providing the server.

3.2 User Summary

Name	Description	Responsibilities	Stakeholder
Lecturers and Teacher Assistant	Their accounts will be used for uploading the slides, references and homeworks; grading the homeworks and projects for each student. They can interact with the administrator through a web messenger or a form on our website.	They will use all functions for lecturers in our website, give us some useful data about their teaching, suggesting for some new features, report some struggles to the administrator,	
Students	Students can submit their works on this website through homework posts from the lectures and teacher assistants. They can ask anything related to their course in the forum of our website.	They will use all functions for students, provide us useful data relating to their course, reporting some bugs in this website to the admin.	
Admin	Administrators will maintain this website working smoothly. They will take responsibility for the user's question; create courses and classes; adding participants into this course.	They will reply to the questions in the shortest time, and interact with the users friendly. They can talk with the developer of the system to solve the failures occurring in this website.	

3.3 User Environment

- There are five people in my teams from the beginning to the end of our project

- Each task cycle will last two weeks, containing two planning meetings and a reviewing meeting. Each meeting of our teams will last at least two hours. Each task will be done by one or more people in our group depending on the difficulty of this task. In the working process, if anyone has some issues, other people in our group will give some clues in order to help this person to complete this task.
- Our product will be executed in the format of web application.

3.4 Alternatives and Competition

- School Moodle: This web has many functions for students and lectures such as: Announcements, Creating Homework and setting deadlines, forum for discussion, messaging,... However, this website interface is too boring, it does not contain some other functions such as: Typing with Latex format or creating thread for asking questions,... Moreover, many lectures in our school create a group on Facebook or Zalo for discussion. This will make the information spread out into many different flows, not concentrate on only one platform.
- Piazza: This website has many of the same features as our school moodle. But the interface is too boring and it does not contain some advanced features such as: checking plagiarism, creating threads for asking questions,...

4. Product Features

No.	Feature	Description	Priority
1	Create/organize classes	Universities can create a room for each class and add lecturers and students to that room. Lecturers can organize the class following their rules and preferences.	High
2	Create topics for class	Lecturers can create homework, assignments, projects, Q&A, etc.	High
3	Discussion	Students and Lecturers can communicate with each other on the topics created by lecturers.	High
4	(Anonymous) Q&A	Post questions anonymously to generate healthy and comfortable discussions in class. Lecturers can mark the best answer for each question. Students can also vote for the best answer..	Medium
5	Rich text	Support Markdown, LaTeX editor for equations, code blocks with syntax highlighting, and multimedia.	Medium
6	Participation monitoring	Analyze participants' statistics to see who's engaged and who might need extra support. Export statistics to reports in pdf.	Medium
7	Plagiarism detection	Check if students' submissions for code assignments are plagiarized.	Low
8	Internationalization and localization	Support multiple displayed languages.	Low

5. Non-Functional Requirements

- High reliability, usability

- No SQL injection

- User friendliness: The interaction between users on this website is easy. Our website has some documents for new-user in order that we can provide quick steps for them to use this website better. Users can answer or report to the admin if they have some issues.

- Performance: The response time of our website is fast, there are rarely failures during execution

- Scalability: our system can perform smoothly with large amounts of data in the databases and it can handle more than 100000 users at the same time. Moreover, we can upgrade more features or servers in our website

- Maintainability: Administrators can detect the bug in this website quickly and fix it in a short period of time,